

WHAT IS CLAIMED IS:

1. A multi-function and moveable fog-generating apparatus, comprising:

5 A storage tank, providing a small quantity inlet and a filter; a large quantity inlet and a filter; an outlet equipped with a double layer filter; also equips with float valve to prevent overflow;

A mixture tank, connecting to said storage tank with a valve to supply or not supply mixture to said storage tank;

10 A high-pressure pump, connecting to said outlet filter of said storage tank to add pressure to the water or mixing water; the outlet of the pump equips with a high-pressure pipe filter;

A power source, providing power to said high-pressure pump;

15 A plurality of handle water guns, connecting with high-pressure pipe to said high-pressure pump via said high-pressure pipe filter, the front end equipped with a fast connector for conveniently changing of a nozzle;

A plurality of handle water gun storage-boxes, for placing said handle water gun;

A pipe roller and a handler, for rolling the pipe or releasing the pipe;

20 A plurality of changeable nozzles, said nozzle is one or multiple nozzle design, to increase the out going quantity of fog water, and providing fog water to both straight ahead and the two sides for different purpose of use; and equip with a filter at the end side;

A plurality of nozzle storage-box, for placing said nozzles;

25 A anti-noise cover, preventing too much noise of said power source;

A cart, for installing said storage tank, said mixture tank, said power source,, said high-pressure pump, said water gun, said water gun

storage-boxes, said nozzles, said nozzle storage-boxes, said pipe and said roller, etc., equipped with front wheels and rear wheel(s), handler and pulling ring, for pushing or pulling said apparatus.

2. An apparatus as recited in claim 1, wherein the cubic measure of  
5 said storage tank is 30 liter to 80 liter.

3. An apparatus as recited in claim 1, wherein the cubic measure of said mixture tank is less than 10 liter.

4. An apparatus as recited in claim 1, wherein said high-pressure pump providing a pressure of 80 bar to 150 bar.

10 5. An apparatus as recited in claim 1, wherein said high-pressure pump supplying a quantity of 5 liter to 20 liter per minute of water to each nozzle.

6. An apparatus as recited in claim 1, wherein said power source is a small gasoline engine.

15 7. An apparatus as recited in claim 1, wherein said power source is an electric motor.

8. An apparatus as recited in claim 5, wherein said small gas engine is started by hand.

20 9. An apparatus as recited in claim 5, wherein said small gas engine is started by battery electric-starter.

10. An apparatus as recited in claim 5, wherein said small gas engine is started both by hand and electric-starter.

11. An apparatus as recited in claim 1, wherein said mixture is foaming agent.

25 12. An apparatus as recited in claim 1, wherein said mixture is cleaning agent.

13. An apparatus as recited in claim 1, wherein said mixture is fire extinguishing chemical.

14. An apparatus as recited in claim 1, wherein said mixture is pyrethrum.

15. An apparatus as recited in claim 1, wherein said mixture is bio surface-active agent in environmental protection.

5           16. An apparatus as recited in claim 1, wherein said handle water guns are 1 to 4

17. An apparatus as recited in claim 1, wherein said handle water gun storage-boxes are 3 to 5.

10           18. An apparatus as recited in claim 1, wherein every changeable nozzle has two nozzles, one spray straight ahead and the other one spray to one side with an angle of  $\beta$ , wherein  $\beta$  is between  $15^\circ$  to  $60^\circ$ , the better is  $45^\circ$ .

15           19. An apparatus as recited in claim 1, wherein every changeable nozzle has three nozzle, a central one spray straight ahead and the other two spray to the two side separate from said central one a distance of  $d$  apart with an angle of  $\beta$ , wherein  $d$  is between 5 cm to 10 cm and  $\beta$  is between  $35^\circ$  to  $55^\circ$ .

20           20. An apparatus as recited in claim 1, wherein said handler of the cart tilt backward with an angle of  $30^\circ$  to  $60^\circ$ .

21           21. An apparatus as recited in claim 1, wherein said cart can be pull by a car.

22. An apparatus as recited in claim 1, wherein said cart can be pull by a motorcycle.

25           23. An apparatus as recited in claim 1, wherein said cart can be pull by a tractor.

24. An apparatus as recited in claim 1, wherein said cart can be moved by push or pull with manpower.